

03/18/13



Technical Report for

Anderson, Mulholland & Associates

BMSMC, Building 5 Area, PR

SM04.00.06 Area E 1 CM

Accutest Job Number: JB30082

Sampling Dates: 02/27/13 - 02/28/13

Report to:

Anderson, Mulholland & Associates

ttaylor@amaiconsult.com

ATTN: Terry Taylor

Total number of pages in report: 13



Test results contained within this data package meet the requirements of the National Environmental Laboratory Accreditation Conference and/or state specific certification programs as applicable.

Maney +. Cole
Nancy Cole
Laboratory Director

Client Service contact: Tammy McCloskey 732-329-0200

Certifications: NJ(12129), NY(10983), CA, CT, DE, FL, IL, IN, KS, KY, LA, MA, MD, MI, MT, NC, OH VAP (CL0056), PA, RI, SC, TN, VA, WV

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Sample Summary

Anderson, Mulholland & Associates

Job No:

JB30082

BMSMC, Building 5 Area, PR Project No: SM04.00.06 Area E 1 CM

Sample Number	Collected Date	Time By	Received	Matri Code		Client Sample ID
JB30082-1	02/27/13	17:30 TT	03/01/13	so	Soil	AREAEC_9BOT
JB30082-2	02/28/13	10:15 TT	03/01/13	so	Soil	AREAEC_12BOT
JB30082-2D	02/28/13	10:15 TT	03/01/13	so	Soil Dup/MSD	AREAEC_12BMSD
JB30082-2S	02/28/13	10:15 TT	03/01/13	so	Soil Matrix Spike	AREAEC_12BMS
JB30082-3	02/28/13	11:55 TT	03/01/13	so	Soil	AREAEC_13BOT

Soil samples reported on a dry weight basis unless otherwise indicated on result page.





CASE NARRATIVE / CONFORMANCE SUMMARY

Client: Anderson, Mulholland & Associates Job No JB30082

Site: BMSMC, Building 5 Area, PR Report Date 3/18/2013 9:29:59 AM

On 03/01/2013, 3 Sample(s), 0 Trip Blank(s) and 0 Field Blank(s) were received at Accutest Laboratories at a temperature of 4 C. Samples were intact and chemically preserved, unless noted below. An Accutest Job Number of JB30082 was assigned to the project. Laboratory sample ID, client sample ID and dates of sample collection are detailed in the report's Results Summary Section.

Specified quality control criteria were achieved for this job except as noted below. For more information, please refer to the analytical results and QC summary pages.

Volatiles by GCMS By Method SW846 8260B

Matrix: SO Batch ID: VA7246

- All samples were analyzed within the recommended method holding time.
- All method blanks for this batch meet method specific criteria.
- Sample(s) JB30109-9MS, JB30109-9MSD were used as the QC samples indicated.
- Matrix Spike Recovery(s) for Acetone are outside control limits. Outside control limits due to matrix interference.
- Matrix Spike Duplicate Recovery(s) for Acetone are outside control limits. Outside control limits due to matrix interference.
- RPD(s) for MS/MSD for Xylene (total) are outside control limits. Outside control limits due to matrix interference.

Matrix: SO Batch ID: VA7248

- All samples were analyzed within the recommended method holding time.
- All method blanks for this batch meet method specific criteria.
- Sample(s) JB30082-2MS, JB30082-2MSD were used as the QC samples indicated.
- Matrix Spike Recovery(s) for Acetone are outside control limits. Outside control limits due to high level in sample relative to spike amount.
- Matrix Spike Duplicate Recovery(s) for Acetone are outside control limits. Outside control limits due to high level in sample relative to spike amount.
- RPD(s) for MS/MSD for Acetone are outside control limits. Outside control limits due to matrix interference

Wet Chemistry By Method SM2540 G-97

Matrix: SO Batch ID: GN81321

■ The data for SM2540 G-97 meets quality control requirements.

Accutest certifies that data reported for samples received, listed on the associated custody chain or analytical task order, were produced to specifications meeting Accutest's Quality System precision, accuracy and completeness objectives except as noted.

Estimated non-standard method measurement uncertainty data is available on request, based on quality control bias and implicit for standard methods. Acceptable uncertainty requires tested parameter quality control data to meet method criteria.

Accutest Laboratories is not responsible for data quality assumptions if partial reports are used and recommends that this report be used in its entirety. Data release is authorized by Accutest Laboratories indicated via signature on the report cover

Summary of Hits Job Number: JB30082

Account: Anderson, Mulholland & Associates BMSMC, Building 5 Area, PR 02/27/13 thru 02/28/13 **Project: Collected:**

Lab Sample ID Analyte	Client Sample ID	Result/ Qual	RL	MDL	Units	Method
JB30082-1	AREAEC_9BOT					
Benzene Ethylbenzene Toluene Xylene (total)		2.8 33.0 0.34 J 115	1.1 1.1 1.1 1.1	0.13 0.30 0.12 0.16	ug/kg ug/kg ug/kg ug/kg	SW846 8260B SW846 8260B SW846 8260B SW846 8260B
JB30082-2	AREAEC_12BOT					
Acetone Benzene Ethylbenzene Xylene (total)		189 1.6 1.0 J 3.8	13 1.3 1.3 1.3	2.1 0.15 0.33 0.17	ug/kg ug/kg ug/kg ug/kg	SW846 8260B SW846 8260B SW846 8260B SW846 8260B
JB30082-3	AREAEC_13BOT					
Acetone Benzene Ethylbenzene Xylene (total)		60.6 1.7 13.5 54.3	13 1.3 1.3 1.3	2.2 0.16 0.35 0.18	ug/kg ug/kg ug/kg ug/kg	SW846 8260B SW846 8260B SW846 8260B SW846 8260B





Samp	le R	Resul	lts

Report of Analysis



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Report of Analysis

Client Sample ID: AREAEC_9BOT

 Lab Sample ID:
 JB30082-1
 Date Sampled:
 02/27/13

 Matrix:
 SO - Soil
 Date Received:
 03/01/13

 Method:
 SW846 8260B
 SW846 5035
 Percent Solids:
 86.6

Project: BMSMC, Building 5 Area, PR

File ID DF Analyzed By Prep Date Prep Batch Analytical Batch Run #1 A192404.D 1 03/08/13 OTR 03/01/13 12:00 n/a VA7246

Run #2

Initial Weight

Run #1 5.1 g

Run #2

VOA Special List

CAS No.	Compound	Result	RL	MDL	Units	Q
67-64-1	Acetone	ND	11	1.9	ug/kg	
71-43-2	Benzene	2.8	1.1	0.13	ug/kg	
100-41-4	Ethylbenzene	33.0	1.1	0.30	ug/kg	
108-10-1	4-Methyl-2-pentanone(MIBK)	ND	5.7	0.85	ug/kg	
108-88-3	Toluene	0.34	1.1	0.12	ug/kg	J
1330-20-7	Xylene (total)	115	1.1	0.16	ug/kg	
CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limi	its	
1868-53-7	Dibromofluoromethane	102%		70-13	30 %	
17060-07-0	1,2-Dichloroethane-D4	87%		70-12	22%	
2037-26-5	Toluene-D8	109%		81-12	27 %	
460-00-4	4-Bromofluorobenzene	109%		66-13	32%	

ND = Not detected

MDL - Method Detection Limit

RL = Reporting Limit

E = Indicates value exceeds calibration range

J = Indicates an estimated value

 $B = \ Indicates \ analyte \ found \ in \ associated \ method \ blank$

N = Indicates presumptive evidence of a compound



Report of Analysis

Client Sample ID: AREAEC_12BOT

 Lab Sample ID:
 JB30082-2
 Date Sampled:
 02/28/13

 Matrix:
 SO - Soil
 Date Received:
 03/01/13

 Method:
 SW846 8260B
 SW846 5035
 Percent Solids:
 86.5

Project: BMSMC, Building 5 Area, PR

File ID DF Analyzed By Prep Date Prep Batch Analytical Batch Run #1 A192477.D 1 03/11/13 OTR 03/01/13 12:00 n/a VA7248

Run #2

Initial Weight

Run #1 4.6 g

Run #2

VOA Special List

CAS No.	Compound	Result	RL	MDL	Units	Q
67-64-1	Acetone	189	13	2.1	ug/kg	
71-43-2	Benzene	1.6	1.3	0.15	ug/kg	
100-41-4	Ethylbenzene	1.0	1.3	0.33	ug/kg	J
108-10-1	4-Methyl-2-pentanone(MIBK)	ND	6.3	0.94	ug/kg	
108-88-3	Toluene	ND	1.3	0.13	ug/kg	
1330-20-7	Xylene (total)	3.8	1.3	0.17	ug/kg	
CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Lim	its	
1868-53-7	Dibromofluoromethane	104%		70-1	30%	
17060-07-0	1,2-Dichloroethane-D4	90%		70-1	22%	
2037-26-5	Toluene-D8	108%		81-1	27%	
460-00-4	4-Bromofluorobenzene	110%		66-1	32%	

ND = Not detected

MDL - Method Detection Limit

RL = Reporting Limit

E = Indicates value exceeds calibration range

J = Indicates an estimated value

 $B = \ Indicates \ analyte \ found \ in \ associated \ method \ blank$

N = Indicates presumptive evidence of a compound



Report of Analysis

Client Sample ID: AREAEC_13BOT

 Lab Sample ID:
 JB30082-3
 Date Sampled:
 02/28/13

 Matrix:
 SO - Soil
 Date Received:
 03/01/13

 Method:
 SW846 8260B
 SW846 5035
 Percent Solids:
 75.8

Project: BMSMC, Building 5 Area, PR

File ID DF Analyzed By Prep Date Prep Batch Analytical Batch Run #1 A192478.D 1 03/11/13 OTR 03/01/13 12:00 n/a VA7248

Run #2

Initial Weight

Run #1 5.0 g

Run #2

VOA Special List

CAS No.	Compound	Result	RL	MDL	Units	Q
67-64-1	Acetone	60.6	13	2.2	ug/kg	
71-43-2	Benzene	1.7	1.3	0.16	ug/kg	
100-41-4	Ethylbenzene	13.5	1.3	0.35	ug/kg	
108-10-1	4-Methyl-2-pentanone(MIBK)	ND	6.6	0.99	ug/kg	
108-88-3	Toluene	ND	1.3	0.14	ug/kg	
1330-20-7	Xylene (total)	54.3	1.3	0.18	ug/kg	
CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limi	ts	
1868-53-7	Dibromofluoromethane	104%		70-13	30 %	
17060-07-0	1,2-Dichloroethane-D4	91%		70-12	22 %	
2037-26-5	Toluene-D8	109%		81-12	27%	
460-00-4	4-Bromofluorobenzene	108%		66-13	32 %	

ND = Not detected

MDL - Method Detection Limit

RL = Reporting Limit

E = Indicates value exceeds calibration range

J = Indicates an estimated value

B = Indicates analyte found in associated method blank

N = Indicates presumptive evidence of a compound





Misc. Forms	
Custody Documents and Other Forms	
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Includes the following where applicable:

• Chain of Custody



PAGE ___ OF ___

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Client / Reporting Information			Project										D.								3008	_	
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Street Address 110 Corporate Paula Dr		Cres.	S / T V	-		on (if diffe						+										1	GW - Ground Water WW - Water GW - Surface Water
White Plains UY 1000	Y City	-	State	Compan	y Name	m (ir dine	rent iro	m Ke	port to)			1											SO - Soil SL- Sludge SED-Sediment
Project Contact Terry Taylor Haylored	all Project#	JH. COM		Street A	ddress			***************************************				Jakie J										- 1	OI - Oil LIQ - Other Liquid AIR - Air
914-391-1225 Sampler(s) Name(s) Phor	Client Purchase			City			Sta	ate		Zi	р	100	-										SOL - Other Solid WP - Wipe FB-Field Blank
- Publi	ne # Project Manager			Attention	ľ							LV)											B-Equipment Blank RB- Rinse Blank TB-Trip Blank
Accident			Collection	T				TT		erved Bo	TWI	-0	7							1		-	
Sample# Field ID / Point of Collection	MEOH/DI Vial #	Date	Time	Sampled by	Matrix	# of bottles	N _{KOH}	HNO3	H2SO4	Ol Wat	ENCO	BIS											AB USE ONLY
AREAEC GROT		2/27/13	1730	-	50	4	-	Н	_	1	Ш.	X										1	12 T6
AREAEC_12 BOT	- Α	2/28/13	1015		50	4	-	H	+	-	4	X											14 Ib
ADEAEC-12 BMSE	<u> </u>	2/29/12	1015		50	4	-	H	+	-	+	X		-								\perp	4944
-3 AREAEC-13 BOT	3	2/28/12	1015		50	4	\vdash	Н	+	\vdash	++	K		\vdash								_	
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JB30082: Chain of Custody Page 1 of 3







Accutest Laboratories Sample Receipt Summary

Accutest Job Number: JE	30082		Client:			Project:			
Date / Time Received: 3/	1/2013		Del	ivery Method:		Airbill #'s:			
Cooler Temps (Initial/Adjus	ted): #	1: (4/4);	0#2: (4/4); 0						
Custody Seals Present:	Y or N	3.	COC Present	•	<u>N</u>	Sample Integrity - Documentation 1. Sample labels present on bottles:	<u>Y</u>	or N	
Cooler Temperature		or N		•		2. Container labeling complete:3. Sample container label / COC agree:	✓		
Temp criteria achieved: Cooler temp verification: Cooler media: No. Coolers:	V	IR Gun ce (Bag)				Sample Integrity - Condition 1. Sample recvd within HT: 2. All containers accounted for: 3. Condition of sample:	<u>Y</u> ✓	or N	
Quality Control Preservation	on Y	or N	N/A			Sample Integrity - Instructions	Υ	or N	N/A
 Trip Blank present / cooler: Trip Blank listed on COC: 		✓				Analysis requested is clear: Bottles received for unspecified tests	✓	□	
3. Samples preserved properly4. VOCs headspace free:	/: V		✓			Sufficient volume recvd for analysis: Compositing instructions clear: Filtering instructions clear:			V
Comments									
Accutest Laboratories V:732.329.0200						Highway 130 329.3499			Dayton, New Jersey www/accutest.com

JB30082: Chain of Custody

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Date: 3/15/2013

7500059		
Job Change Order		

Requested Date:	e: 3/15/2013	Received Date: 3/	3/1/2013
Account Name:	: Anderson, Mulholland &	Due Date: 3/	3/15/2013
Project	BMSMC, Building 5 Area, PR	Deliverable:	FULT1
CSR:	michello	TAT (Days):	4
Sample #: JB30082-All Dept: Dept:	Sample #: JB30082-All Change: Dept: Please relog for D8015IPA & DGC+METH, OK 1 Tun out of hold time.	Change: Please relog for D8015IPA & DGC+METH. OK trun out of hold time.	======================================

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Above Changes Per:

Terry Taylor

To Client: This Change Order is confirmation of the revisions, previously discussed with the Accutest Client Service

JB30082: Chain of Custody Page 3 of 3